NO2
$$R_1$$
, R_2 , R_2 , R_3 , R_4 , R_4 , R_5

wherein:

the aromatic ring is optionally substituted with an alkoxy group or a methylenedioxy group;

A is O, S, N-alkyl, N-aryl, or $(CH_2)_n$;

LY A

n is 0 to about 3;

B is an aprotic, weakly basic group;

R and R_1 are each, independently, -H, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alknyl group, an optionally substituted aryl group, or an optionally substituted heteroaromatic group.

- (Amended) The compound of Claim 1, wherein M is selected from the group consisting
 of an amino acid, a peptide, nucleoside, nucleotide, polynucleotide or analogs thereof, a
 monosaccharide and a protein.
- (Amended) The compound of Claim 2, wherein M is a base-protected deoxynucleoside, wherein the deoxynucleoside is a deoxyadenosine, a deoxycytidine, a thymidine or a deoxyguanosine.
- (Amended) The compound of Claim 3, wherein M is selected from the group consisting
 of base protected deoxynucleoside H-phosphonates and base protected deoxynucleoside
 phosphoramidites.
- 5. (Amended) A method of attaching a molecule with a reactive site to a support comprising the steps of:
 - (a) providing a support with a reactive site;
 - (b) binding a first molecule represented by the formula M_1 - Y_1 to the reactive site, wherein:

 \mathbf{M}_1 is a monomeric building block having a reactive site that is masked by \mathbf{Y}_1 ; and

 Y_1 is a photolabile protecting group selected from the group consisting of:

50 p

,

and

$$R$$
 ; and

wherein:

the aromatic ring is optionally substituted with an alkoxy group or a methylenedioxy group:

A is O, S, N-alkyl, N-aryl, or (CH₂),

n is 0 to about 3;

B is an aprotic, weakly basic group,

R and R_1 are each, independently, -H, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alknyl group, an optionally substituted aryl group, or an optionally substituted heteroaromatic group; and

(c) removing Y_1 to provide a derivatized support comprising M_1 with an unmasked reactive site immobilized thereon.

(Amended) The method of Claim 5, further comprising:

(a) coupling a second molecule represented by the formula M₁-Y₁ to the unmasked reactive site, wherein Y₁ and M₁ of the second molecule are selected independent of the first molecule, to produce a derivatized support having immobilized thereon a chain of the first and the second molecules; and
 (b) removing Y₁ from the second molecule to provide a derivatized support with a chain of the first and the second molecules with a second unmasked reactive site immobilized thereon

5 43 (b)

(Amended) The method of Claim 7, further comprising repeating steps (a) and (b) of Claim 7 with a succession of molecules represented by the formula M_1 - Y_1 , wherein Y_1 and M_1 for each occurrence are selected independently, to provide a chain of molecules immobilized on the support.

- 9. (Amended) The method of Claim 8, wherein $M_{\scriptscriptstyle \parallel}$ for each occurrence is a deoxynucleoside.
- (Amended) The method of Claim 9, wherein Y_1 of each deoxynucleoside masks a 5'-OH. 11.

- (Amended) The method of Claim 7, wherein \mathbf{Y}_1 from said first and said second molecules 12. is removed by irradiation at a wavelength of greater than 350 nm.
- (Amended) Amethod of forming, from component molecules represented by the formula 14. M_1 - Y_1 , a plurality of compounds bound to a support, each compound occupying a separate predefined region of the support, said method comprising the steps of:
 - activating a first region of the support; (a)
 - binding a molecule represented by the formula M_1 - Y_1 to the first region; (b)
 - repeating steps (a) and (b) on other regions of the support whereby each of said (c) other regions has bound thèreto another molecule represented by the formula M_1-Y_1 ;
 - (d) removing \mathbf{Y}_1 from the \mathbf{M}_1 that is bound to one or more regions of the support to provide one or more regions having an unmasked reactive site;
 - binding an additional molecule represented by the formula M_1 - Y_1 to the said one (e) or more unmasked reactive sites, wherein:

 \boldsymbol{M}_{l} for each occurrence is an independently selected monomeric building block having a reactive site that is masked by Y1, and

Y₁ for each occurrence is a photolabile protecting group that is independently selected from the group consisting of:

$$\begin{array}{c} & & & & \\ & & &$$

and

wherein:

the aromatic ring is optionally substituted with an alkoxy group or a methylenedioxy group;

A is O, S, N-alkyl, N-aryl, or (CH₂),

n is 0 to about 3;

B is an aprotic, weakly basic group;

R and R, are each, independently, -H, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alknyl group, an optionally substituted aryl group, or an optionally substituted heteroaromatic group; and

- (f) repeating steps (d) and (e) on regions of the support until a desired plurality of compounds is formed from the component molecules represented by formula M₁-Y₁, each compound occupying separate predefined regions of the support.
- (Amended) The method of Claim 14, wherein M₁ for each occurrence is a deoxynucleoside.
 - 18. (Amended) The method of Claim 16, wherein Y_1 of each deoxynucleoside masks a 5'-OH $\frac{3!}{2!}$ OH

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A 10

- 19. (Amended) The method of Claim 14, wherein Y_1 is removed by irradiation at a wavelength of greater than 350 nm.
- (Amended) The method of Claim 14, wherein the plurality of different compounds bound to the support comprises at least 10⁶ different compounds.

MA

- 23. (Amended) The method of Claim 14, further comprising:
 - (a) covalently binding a molecule comprising a masked reactive site linked to a chemically labile protecting group to a reactive site, wherein the reactive site is either on an activated region of the support as formed in step (a) of Claim 14 or is an unmasked reactive site on a molecule bound to the support as formed in step (d) of Claim 14;
 - replacing the chemically labile protecting group with a photolabile protecting group to provide a region of the support having a molecule with the photolabile protecting group; and
 - (c) optionally repeating steps (d)-(f) of Claim 14.

Please add new Claims 30-35.

 (New) A compound represented by the formula M-Y₁, wherein Y₁ is selected form the group consisting of:

31. (New) The compound of Claim 30, wherein M is a nucleoside $\beta\mbox{-cyanoethyl}$ phosphoramidite.

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32. (New) The method of Claim 8, wherein Y₁ for each occurrence is, independently, selected from the group consisting of:

5 1 co/

 (New) The method of Claim 32, wherein M₁ for each occurrence is a nucleoside βcyanoethyl phosphoramidite.

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(New) The method of Claim 14, wherein Y₁ for each occurrence is, independently, selected from the group consisting of:

5 mg/